



**WILLRICH PRECISION
INSTRUMENT**
THINK MEASUREMENT... THINK WILLRICH
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V1 / V1+

Tough gauges for the modern workshop



1.

PRESENTATION

In the evolving landscape of dimensional metrology, Trimos is proud to announce the launch of its latest innovations: the V1 and V1+. These entry-level instruments are masterfully designed to serve as the perfect bridge between the traditional world of scribes and the advanced realm of height gauges, embodying the Swiss commitment to precision, reliability, and user-friendly design.

V1

Ideal for those taking their first steps into precision measurement. The V1 simplifies unidirectional measurements and tracing with remarkable ease. It offers a seamless transition for users accustomed to manual scribes, upgrading their toolset without sacrificing simplicity and robustness. This instrument is crafted to endure, embodying the Swiss ethos of durability and precision, with features tailored for immediate application:

V1+

This model takes the foundational qualities of the V1 to new heights, catering to those looking to broaden their measurement capabilities. It introduces bi-directional measurement, which brings added versatility without necessitating extra accessories. It also features advanced fine adjustment and a constant measuring force, both critical for improving measurement precision.

- Robust and Easily Portable
- Clear, Simple User Interface
- Counterweight for Operational Comfort
- Quick and Smooth Carriage movement
- Designed and manufactured in Switzerland
- Bidirectional Measurement Capability (V1+)
- Measuring Force Management (V1+)
- RS232 Connectivity (Bluetooth coming soon)
- Available in 300 and 600 mm models



2.

DIFFERENCES

V1

The V1 is an entry-level gauge focused on scribing and unidirectional measurements. Its standout feature is its simplicity, making it incredibly user-friendly for immediate applications.

V1+

The V1+ enhances the V1 with bidirectional measurements and advanced features like measuring force management. It's suited for more complex tasks and offers improved accuracy.

3.

APPLICATIONS AND FUNCTIONALITIES



Precision Scribing

Tailored for precision scribing applications in tough environments.



Bidirectional measurements

Advanced capabilities including diameters and centerline measurements without extra tools (V1+).



Operating comfort

A counterweight system provides unparalleled operational efficiency and comfort.



Robust Design

Engineered for durability, reliability, and easy transportability.



Immediate Use Readiness

Very simple and intuitive operation. Clear and large display.



Enhanced Accuracy

Includes measuring force management for consistent precision (V1+).

4.

TECHNICAL DATA

		V1		V1+	
		300	600	300	600
Measuring range	mm (in)	306 (12)	611 (24)	306 (12)	611 (24)
Max. permissible errors, B_{MPE}	μm	18	30	15	25
Repeatability, R_{MPE} (2s)	μm	10		5	
Maximum resolution	mm (in)	0.01 (0.001)		0.001 (0.0001)	
Measuring force	N	-		3	
Autonomy	h	2000			
Interface		RS232			
Max. travel speed	mm/s	1500			
Operating temperature	$^{\circ}\text{C}$	+10 ÷ +40			
Weight (steel base)	kg	7	8	7	8
Weight (granite base)	kg	-	-	13.4	15

The above values were determined in accordance with ISO 13225 using the TA-MI-121 insert. R_{MPE} is defined as 2 times the standard deviation (2s) over a series of 20 height measurements.

5.

MODELS & REFERENCES



Steel base



Granite base

		V1		V1+	
		300	600	300	600
Steel base		V1-300	V1-600	V1+300	V1+600
Granite base		-	-	V1+300G	V1+600G

